

VEER ARORA

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PROFILE

Computer Science & Design graduate who builds and tests backend and AI systems end to end. Tested production MLOps pipelines at L&T Finance (Python, SQL, Google Cloud, Kubeflow) and builds full-stack and LLM-agent applications with FastAPI, PostgreSQL, and React — including a multi-tenant platform whose access control is enforced in the database and an AI support agent with a policy/escalation gate and its own evaluation harness. Comfortable across data analysis, backend APIs, LLM agents, and automated testing.

SKILLS

Languages & Data Python, SQL, Pandas, NumPy, data cleaning & validation, EDA

Backend & Web FastAPI, PostgreSQL, row-level security, SQLAlchemy, Alembic, REST APIs, React, TypeScript, Docker, pytest, Git, CI/CD

AI & LLM LLM tool-calling agents, RAG, LangGraph, evaluation harnesses (tool-selection, task-success, grounding, cost/latency), OpenAI / Anthropic / Google Gemini APIs

Analytics & ML correlation analysis, descriptive statistics, outlier & anomaly detection, scikit-learn

Visualization & Reporting Power BI, Matplotlib, Seaborn, PDF report generation

Cloud & MLOps Google Cloud Platform, Kubeflow, pipeline testing, UAT

Tools Streamlit, SQLite, n8n, OpenCV, MS Excel, MS Office

EXPERIENCE

L&T Finance — Data Analyst Intern

Jun 2025 – Aug 2025

- Tested and validated Nostradamus, an MLOps platform integrating 8 machine-learning models across EWS, Banking, Self-Cure, and Collections workflows.
- Performed end-to-end pipeline validation, data-integrity checks, SQL-based verification, and User Acceptance Testing using Python, SQL, Google Cloud Platform, and Kubeflow.
- Identified and documented critical defects — including an EWS output-formatting issue — improving model reliability before deployment.
- Collaborated with developers and MLOps engineers on root-cause analysis, test planning, defect tracking, and deployment readiness.

E-Cell, IIT Bombay — Campus Executive

Aug 2023 – Feb 2024

- Promoted entrepreneurship programs, workshops, and competitions, and coordinated outreach, event logistics, and mentor coordination across the student community.

PROJECTS

AgentOps — AI Support Engineer

github.com/veer0608/agentops

Python · FastAPI · LangGraph · SQLAlchemy · Alembic

- Built an AI support agent that takes real actions (create/update tickets, escalate) behind a policy gate that auto-executes, routes to a human review queue, or blocks each action based on business rules and confidence thresholds; writes are idempotent and recorded in an append-only audit log.
- Made the model provider-agnostic — OpenAI, Anthropic, and Google Gemini swappable via one config value — and implemented a second agent on LangGraph behind the same interface, using the eval harness to prove both implementations score identically.
- Wrote a scenario-based evaluation harness scoring six dimensions (tool-selection precision/recall/F1, task-success, escalation accuracy, citation-grounding, cost, and latency), persisting every run for before/after tracking.
- FastAPI + SQLAlchemy + Alembic (SQLite dev / Postgres); 33 automated tests; read tools include RAG-backed doc search and GitHub-issue lookup.

CiteRAG — Retrieval-Augmented QA with Golden-Set Eval

github.com/veer0608/citerag

Python · FastAPI · SQLite-vec · SQLAlchemy

- Built a retrieval-augmented QA system over messy 10-K PDFs where every answer is grounded in cited source chunks.

- Created a golden-set eval harness (recall@k, MRR) and lifted recall@5 from 0.37 to 0.77 against a measured ceiling of 0.85 by iterating on chunking strategy and adding a cross-encoder re-ranker — measured, not guessed.
- Local embeddings + reranker with SQLite-vec; runs with no paid API required.

AgencyDesk — Multi-Tenant SaaS Platform

github.com/veer0608/agencydesk

React · FastAPI · PostgreSQL · Docker

- Built a multi-tenant client/project management platform where one deployment serves many isolated agencies, each with its own clients, projects, and client portal.
- Enforced tenant isolation and internal-vs-client visibility with PostgreSQL row-level security and composite foreign keys, so cross-tenant access is impossible even if application code is wrong; the API connects as an unprivileged database role.
- Wrote 70 automated tests proving cross-tenant isolation and role-based visibility; containerized with Docker Compose and added GitHub Actions CI that builds and tests on every push.

Geojit Report App — Document to Equity-Research PDF

github.com/veer0608/geojit-report-app

Python · FastAPI · ReportLab

- Web app that turns a company's financial context document (PDF/CSV/TXT) into a downloadable, auto-filled Geojit-style equity-research PDF, with the report template reconstructed in ReportLab.

EDUCATION

Madhav Institute of Technology & Science, Gwalior — B.Tech, Computer Science & Design

2022 – 2026

Shanti Niketan HS School, Vidisha — Class 12 (2021) · Trinity Convent Sr. Sec. School, Vidisha — Class 10 (2019)

CERTIFICATIONS

- Affective Computing — NPTEL (Jan – Apr 2024)
- Digital Design with Verilog — NPTEL (Jan – Apr 2025)
- Rational Thinking — Udemy

LEADERSHIP & ACTIVITIES

- R&D Coordinator, Startup Cell, MITS (Jan 2023 – Jun 2026)
- Core Team Member, Digital Learning Group, MITS (Feb 2023 – Jul 2024)
- State-level swimmer

LANGUAGES

English, Hindi